



OSM: Output Switching Module

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Overview: The OSM facilitates easy connection between any Laversab Pitot Static Tester and multiple air-data-probe connections on any aircraft. In addition, the OSM allows the user to individually isolate and test any combination of these multiple air-data-probe connections. The OSM becomes most useful when used with the Laversab 6600 (3-Output tester) to connect to aircraft with smart-probes. Most aircraft with smart-probes require up to a total of 16 connections to the air-data probes. This results in numerous chances for leaky connections and a tangled web of 16 hoses with many in-line T's. The OSM eliminates all these problems.

Neat and reliable hose-connections: The OSM splits each output of the Laversab Model 6600 3-Output Pitot Static Tester into multiple outputs that are then permanently connected to the various adapters that will need to be mounted onto the air-data probes on the aircraft. All of the hoses going to any one adapter are bundled together within a spiral sleeve and this hose-bundle, typically 20 feet long, is neatly wrapped around a reel along with the adapter. There is one reel for each adapter and its hose-bundle. If the aircraft uses 4 adapters, there are a total of 4 reels. The reels are housed inside the OSM case, which is easily portable with its pull-out handle and wheels. The best part is that there are no hose-connections to make or break between the OSM and the adapters. There are only 3 short hose-connections between the OSM and the 6600 Tester.

Automated Leak-checks: When the OSM is used with special software in the 6600, each individual connection to the aircraft is automatically leak-checked and the results are displayed as well as stored for easy retrieval later.

Isolated Leak-checks: Another unique feature of the OSM and 6600 combination is that any output can be individually isolated for "continuous" leak-check cycling, wherein the loss in pressure (or vacuum) due to the leak on that connection is automatically restored (recharged) before restarting the leak-check. If there are leaks on other connections, these are also automatically restored (recharged). This allows the user to stay focused on isolating the leak on that single connection without worrying about leaks on the other connections.

Configurations: The OSM currently comes in several configurations, and alternate configurations are easily produced. The available configurations are detailed below.

1. **OSM-448-Ex:** 4 Pt (Pitot) outputs, 4 Ps2 (Secondary Static) outputs, 8 Ps1 (primary Static) outputs. Outputs are connected to adapters for appropriate Embraer aircraft.
2. **OSM-448-F:** 4 Pt (Pitot) outputs, 4 Ps2 (Secondary Static) outputs, 8 Ps1 (primary Static) outputs. Outputs are connected to adapters for Falcon-7X aircraft.
3. **OSM-347:** 3 Pt (Pitot) outputs, 4 Ps2 (Secondary Static) outputs, 7 Ps1 (primary Static) outputs. Outputs are connected to adapters for military aircraft with three probes.